Terrain Development Division
Architectural and Engineering Services
Environment Canada
Western Region

Division, Aménagement du Paysage
Services d'architecture et de génie
Environnement Canada
Région de l'Ouest

WESTERN REGION CAMPGROUND REPORT

YOHO NATIONAL PARK

Architectural and Engineering Services
Environment Canada
Western Region

Services d'architecture et de génie
Environnement Canada
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91-03117/

WESTERN REGION CAMPGROUND REPORT

YOHO NATIONAL PARK

REGIONAL CAMPGROUND REPORT

EXECUTIVE SUMMARY

This report is a component of the regional campground study completed in 1989. It outlines the required recapitalization work and an implementation framework for the six campgrounds within Yoho National Park. The report has been prepared in a Project Brief format and can be adapted to either a Capital Project or Operational and Maintenance Task. The summary of costs are in 1989 dollars and are itemized as Architectural, Engineering and Landscape Work.

The study was intended to substantiate the costs of work required as a result of site investigations, interviews and various Management Planning and Visitor Services Studies. Architectural and Engineering Services have compiled a complete record in 1987, and 1988 of the individual campgrounds inventory and have completed a condition rating system. The inventory and condition report were utilized to prepare cost estimates for recapitalization in the six campgrounds in Yoho National Park to the total number of universal campsites to be recapitalized are 370 sites and are estimated to cost 2.8 million dollars.

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WESTERN REGION CAMPGROUND REPORT

WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a campground rehabilitation plan for the 92 site campground. The scope of work would include the site rehabilitation, building renovations and improvements, utility improvements, trailer sanitary waste station, staff housing improvements, creek stabilization, interpretive improvements and other associated work items.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will not be expanded but shall only be rehabilitated and renovated.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, A/Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief, Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- Kiosk
- Shelters - Assess need and number of units
- Toilet - Renovate
- Toilet/Shower Building - New
- Staff Quarters
- Utility Buildings
- Theatre (Enclosed)
- Handicapped Access Required
- Cyclist's Food Storage Building

WESTERN REGION CAMPGROUND REPORT

2. Utilities:

- Water Distribution System
- Sewage Disposal Systems
- Sanitary Waste Disposal Area
- Grey Water Disposal Areas

3. Roads:

- Chip Seal Surface - Major Roads
- Gravel Surface - Minor/Linking Roads
- Improve As-required
- Signage

4. Landscape:

- Universal Sites
- Tenting Surface - Soft
- Typical Angle Parking Spur
- Activity Pad
- Permanent Tables
- New Stove Design Required (Ground Level)
- Barriers
- Campsite Markers c/w occupied indicator
- Fire Circle
- Linking Trails
- Wooden Playground Structure
- Grey Water Disposal

5. Interpretation:

- Linking trail to Kicking Horse Overflow required.
- Information signs and information to be provided to visitors with on-site media.
- Walk-in Past Trail - parking area required (possibly on Takakkaw Falls Access Road by Bridge).
- Investigate use of theater for programs.

6. Monarch Creek:

- Culvert/Structure Required
- Creek Channel Stabilization

WESTERN REGION CAMPGROUND REPORT

D. SCHEDULE

1. **1987/88:** Investigation and Prepare Project Brief for Preliminary Approval.

   Year One: Preliminary Approval and Design (Working Drawings).

   Year Two: Building and Utility Construction.

   Year Three: Landscape and Road Construction.

2. **Monarch Creek Improvements**

   Due to the O&M costs incurred each year at this campground this project must be initiated soon.

E. OPERATIONS AND MAINTENANCE

1. Design Capital Person Years are involved at WRO.
2. Electricity is provided by means of a fuel generator. This should be assessed for replacement with the new poverline installation forecast to start in the near future.
3. Propane is utilized for heating fuel.

F. GENERAL CAMPGROUND STATISTICS

1. **Design Criteria** (From Parks Campground Manual)

   1. Semi-Serviced (Level 2):

      - Tent and trailer camping with no utility hook-ups.
      - Centralized sanitary, water and sevage disposal facilities are provided.

   2. Density of Campground: 8 - 18 sites/hectare.
   3. People/Campsite: 1 - 8 people/campsite.
   4. Capacity: 15 - 250 campsites.

WESTERN REGION CAMPGROUND REPORT

2. Existing Conditions

Kicking Horse: This 92 site campground operates from mid-May to early October. During the 146 days it was open in 1984, the average weekday occupancy rate was 59% and an average of 64% of the sites were occupied on the weekends. During July and August, occupancy runs at 100% during the week as well as on weekends. This trend has been consistent for a number of years.

The total number of party nights* at Kicking Horse campground has declined approximately 15% from the 1981 peak of 9,799. No accepted explanation for this trend is available.

* Total party nights is the measure used to indicate levels of use based on the number of visitor parties occupying camping sites over an operating season.

G. RESOURCE CONSERVATION

1. Resource Conservation Contact

Mr. Cal Sime, Yoho.

2. General Analysis

Kicking Horse Campground: The vegetation on this fluvial fan-floodplain has been modified considerably due to facility development and campground use. There is a wide habitat diversity in the area which makes it important to wildlife, particularly ungulates (predominantly elk) and carnivores. Impacts are minimized by the summer-only operation. The area has a high historical resource potential, primarily due to sites associated with early railway construction and mineral exploration/extraction activity. These sites have yet to be formally evaluated.

3. EARP

EARP assessment Level One (Preliminary Screening) must be completed in Year One. Level two assessment must be completed in Year Two upon completion of the final Area Development Plan.

WESTERN REGION CAMPGROUND REPORT

H. INTERPRETATION

- The campground has a theatre which requires a reassessment regarding its use, structure and future.

- The Walk-In-The-Past-Trail is a self-guided trail which requires a parking lot for its users within the campground. A potential area for a new parking lot may be an area north of the bridge along the Takakkaw Falls road.

- The region has a high potential for historical interpretation and this should be developed.

- Signage and other media exhibits must be encouraged in the campground. Links must be made with other interpretive themes within Yoho Park.

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND
YOHO NATIONAL PARK

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
1. Stoves		74	0.120		8.92		
2. Tables		74	0.060		4.5		
3. Barriers		426	0.025		10.65		
4. Tent Pads		308 cubic m	0.025		7.93		
5. Site Markers		74	0.027		1.998		
6. Spur Roads		1,030 cubic m	0.020		20.6		
7. Landscape Improvements		7,840 square m	0.003		23.7		
8. Rehabilitation		lump	sum		11.31		
9. Roadway Improvements		1,690 cubic m	0.021		36.4		
10. Wood Bin		2	3.5		7.0		
11. Fire Circle Site Improve./ Rehabilitation		1,000 square m	0.003		3.0		
12. Trail Work		220 square m	0.020		4.5		
13. Serviced Trailr Site Improve.		lump	sum		8.7		
14. Toilet/Shower Bldg. Site Wrk.		lump	sum		7.15		
15. Playground		lump	sum		14.8		
16. Chip Seal Roads		13,010 square m	0.004			52.1	
17. Toilet Bldgs Site Work		lump	sum		15.0		
18. Kiosk Site Imp.		lump	sum		14.0		
19. Sub-Total					200.158	52.1	252.258
20. CONTINGENCY 20%					40.0		40.0
21. RISK 15%					30.0		30.0
22. ENGINEERING MBC: 55.0 x 1.8 x 0.4 PY				9.9	19.8	9.9	39.6
23. ADMINISTRATION					2.5	1.0	3.5
24. TOTAL				9.9	292.458	63.0	365.358

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND
YOHO NATIONAL PARK

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 3	FUTURE	
C. KICKING HORSE CAMPGROUND UTILITIES							
CLASS "D" ESTIMATE:							
A. WATER DISTRIBUTION							
. Well and Pump		1	18.0		18.0		
c/v values and standpipes		lump sum	40.0		40.0		
B. SEWAGE SYSTEM							
. Lift Station and connections		lump sum	25.0		25.0		
. Sewer Mains		lump sum	5.0		5.0		
. Sewage Disposal Field		1	10.0		10.0		
. Grey Water Disposal			10.0		10.0		
C. SUB-TOTAL					108.0		
D. CONTINGENCY					4.0		
E. RISK					5.0		
F. ENGINEERING MBC: 55.5 x 1.8 x .4 PY				19.98	19.98		
TOTAL PROJECT COSTS				19.98	136.98		156.96

DEC. 14/88
W. GUEST
A&E

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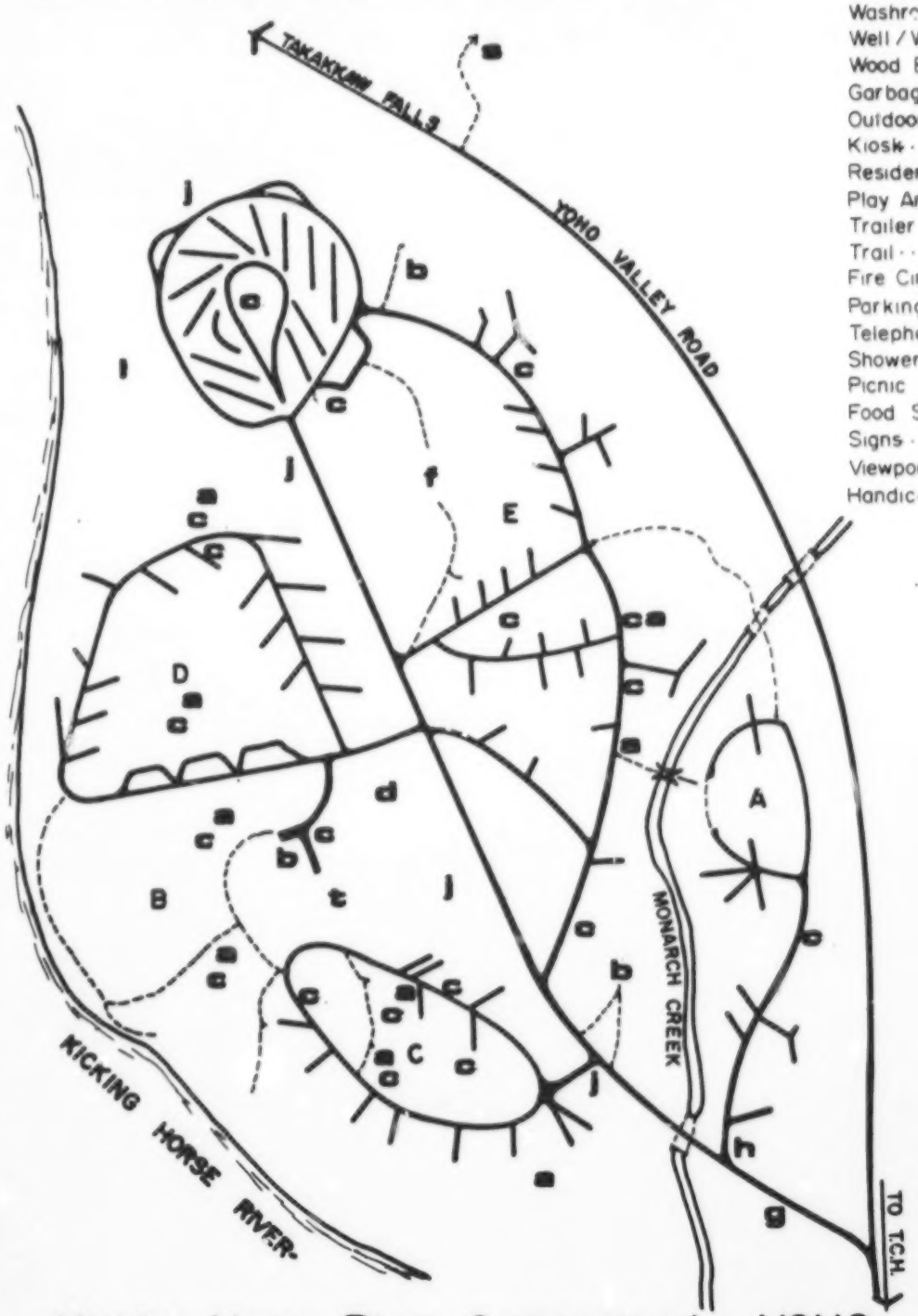
WESTERN REGION CAMPGROUND REPORT

LEGEND

- Kitchen Shelter - a
- Washrooms - b
- Well / Water Standpipe - c
- Wood Bin - d
- Garbage - e
- Outdoor Theatre - f
- Kiosk - g
- Residences - h
- Play Area - i
- Trailer Dump Station - j
- Trail - k
- Fire Circle / Pit - l
- Parking - m
- Telephones - n
- Showers - o
- Picnic Area - p
- Food Storage - q
- Signs - r
- Viewpoint - s
- Handicap Washroom - t



Kicking Horse River Campground - YOHO

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND YNP

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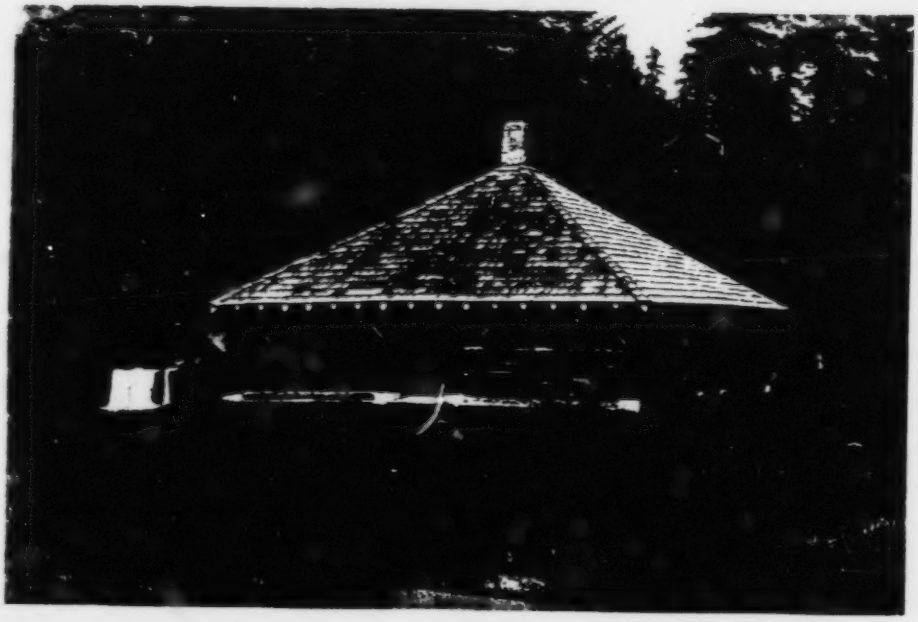
WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND YNP



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WESTERN REGION CAMPGROUND REPORT

WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a campground rehabilitation plan for the 106 site campground. The scope of work would include the site rehabilitation, building renovations and improvements, utility improvements, staff housing improvements, interpretive improvements, conversion of existing camping areas to group camping use and the planning of separate group campground area to replace the existing Ottertail Group Campground.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will not be expanded but shall only be rehabilitated and renovated.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, A/Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief, Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- Kiosk
- Shelters
- Toilet - Renovate
- Toilet/Shower Building - New
- Staff Quarters
- Utility Buildings
- Theatre (assess function only)
- Cyclist's Food Storage Building

WESTERN REGION CAMPGROUND REPORT

2. **Utilities:**

Assess the existing water, sever and electrical systems to identify the condition and improvements to be done.

3. **Roads:**

- Chip Seal Major Access Roads
- Gravel Minor Circulation Roads
- Signage - Improve interior signage and develop highway signage.

4. **Landscape:**

- Universal Sites
- Tenting Surface - Soft
- Angle Parking Stall
- Activity Pad
- Permanent Table
- New Stove Design Required (Ground Level)
- Barriers
- Campsite Markers c/w occupied indicator
- Fire Circle
- Investigate and design a replacement for the Group Campgroun Area (Ottertail Group Camp).
- Linking trails within campground and to adjacent facilities.
- Wooden Playground Structure
- Develop a plan for a safe and functional entrance area at the Kiosk site.
- Wood Bins
- Grey Water Disposal

5. **Interpretation:**

- Linking trail to Hoodoos Viewpoint and to Leanchoil Marsh Day Use Area.
- Assess the existing outdoor theatre and develop a plan for improvements based upon condition and the overall operation/use of the theatre program within the entire park area.
- Information signs and information to be provided to visitors with on-site media.

D. **SCHEDULE**

Pending approval of the Campground Study Report, a detailed development program will be initiated. The work would be completed within 3 years upon approval of campground improvements.

WESTERN REGION CAMPGROUND REPORT

E. OPERATIONS AND MAINTENANCE

1. Design Capital Person Years are involved at WRO.

2. Propane is used for heating fuel.

F. GENERAL CAMPGROUND STATISTICS

1. **Design Criteria** (From Parks Campground Manual)

   1. Semi-Serviced (Level 2):

      - Tent and trailer camping with no utility hook-ups.

      - Centralized sanitary, water and sewage disposal facilities are provided.

   2. Density of Campground: 8 - 18 sites/hectare.

   3. People/Campsite: 1 - 8 people/campsite.

   4. Capacity: 15 - 250 campsites.

2. **Existing Conditions**

   There are 106 sites at this campground, which is open from June to early September. The campground operated 97 days in 1984 and 66 days in 1985. Opening and closing dates are highly dependent on weather conditions and demand.

   Hoodoo Creek campground rarely operates at or over 90% capacity. In 1985, an average of 51% of the sites were occupied during the week and 54% were occupied on the weekends. During July and August, these rates rose only slightly.

   Between 1976 and 1981, use of this campground fluctuated between a high of 6,541 total visitor-nights (1977) and a low of 5,481 visitor-nights in 1976. In 1985, the campground received only 3,812 visitor-nights use, a decline of 42% from the 1977 high.

WESTERN REGION CAMPGROUND REPORT

G. RESOURCE CONSERVATION

1. Resource Conservation Contact

Mr. Cal Sime, Yoho.

2. General Analysis

Hoodoo Creek Campground: As with other fluvial fan landforms this site is subject to occasional flooding and stream channel shifting. The Hoodoo Creek fan and area are considered key elk and moose winter range; however, the summer-only operation of the campground minimizes visitor conflicts with ungulates. The adjacent area to the south contains montane wetland habitats important to beaver and muskrats as well as ungulates, carnivores and breeding and migrating birds.

Improved garbage and food handling and public awareness programs have reduced bear problems at this campground. The Deer Lodge warden cabin, a Federal Heritage Building, is located adjacent to Hoodoo Creek Campground.

3. EARP

EARP assessment Level One (Preliminary Screening) must be completed in Year One. Level two assessment must be completed upon completion of the final Area Development Plan.

H. INTERPRETATION

- The campground has an existing outdoor theatre which requires a reassessment regarding its use, structure and future.
- Assess the Hoodoo trail and access trail to Leanchoil Marsh Day Use Area.
- Signage and other media exhibits must be encouraged in the campground. Links must be made with other interpretive themes within Yoho Park.

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WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
A. ARCHITECTURE (* Option to be Chosen)					340.35	*	340.35
B. LANDSCAPE				9.9	460.33	10.0	480.23
C. UTILITIES					109.55		109.55
D. GRAND TOTAL PROJECT COSTS				9.9	910.23*	10.0*	930.13

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WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND

	DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
					YR - 1	YR - 2	FUTURE	
	A. ARCHITECTURE							
*	1. Kiosk							
	a. Upgrade and Maintain		1	10.0		10.0		
	b. New Kiosk Structure		1	45.0		45.0		
	c. Convert to Self Registration		1	4.0		4.0		
*	2. Park Residence and Trailer Unit Imps.		1 1	18.0 30.0		18.0 30.0		
	3. Ampitheatre		Nil	Nil		Nil		
	4. Toilet Building Improvements		4	10.0		40.0		
	5. Shelter Imps.		4	3.0		12.0		
*	6. Shower Building		1	80.0		80.0		
	7. SUB-TOTAL					235.0	---- CHOOSE OPTION *	
	8. CONTINGENCY 20%					47.8		
	9. RISK 15%					35.25		
	ENGINEERING MBC: 55.0 x 1.8 x .2 PY					19.8		
	11. ADMINISTRATION					2.5		
	12. TOTAL					340.35	------ * OPTION	

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WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
1. Stoves		106	0.070		7.47		
2. Tables		106	0.078		8.315		
3. Wheelstops		Nil	Nil		Nil		
4. Tent Pad		113	0.357		40.44		
5. Side Markers		106	0.020		2.127		
6. Spurs		109	0.541		59.05		
7. Sites		106	0.247		26.2		
8. Site Services		Nil	Nil		Nil		
9. Wood Bins		12	2.0		24.0		
10. Garbage Containers		5	0.5		2.5		
11. Standpipes		12	1.2		14.5		
12. Playground Improvements		4	0.3		1.2		
13. Dump Station		Nil	Nil		NIL		
14. Roads							
a. Entrance		2000 square m	0.014		29.5		
b. Perimeter		9300 square m	0.003		34.8		
c. Service		2500 square m	0.012		30.0		
d. Loops		9500 square m	0.0027		26.0		
e. Chip Sealing		2500 square m	0.004			10.0	
15. Trails		400 square m	0.025		10.0		
16. Entrance Area		Lump	Sum		8.0		

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WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
17. SUB-TOTAL					324.1	10.0	334.1
18. CONTINGENCY 20%					64.82		64.82
19. RISK 15%					48.61		48.61
20. ENGINEERING MBC. 55.0 x 1.8 x .3 PY				9.9	19.8		29.7
21. ADMINISTRATION					3.0		3.0
22. TOTAL				9.9	460.33	10.0	480.23

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WESTERN REGION CAMPGROUND REPORT

HOODOO CREEK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
C. UTILITIES							
1. Water Supply System		1	50.0		50.0		
2. Toilet Building Utilities		4	2.5		10.0		
3. Staff Quarters Utilities		1	5.0		5.0		
4. SUB-TOTAL					65.0		
5. CONTINGENCY 20%					13.0		
6. RISK 15%					9.75		
7. ENGINEERING MBC: 55.0 x 1.8 x 0.2 PY					19.8		
8. ADMINISTRATION					2.0		
9. TOTAL					109.55		

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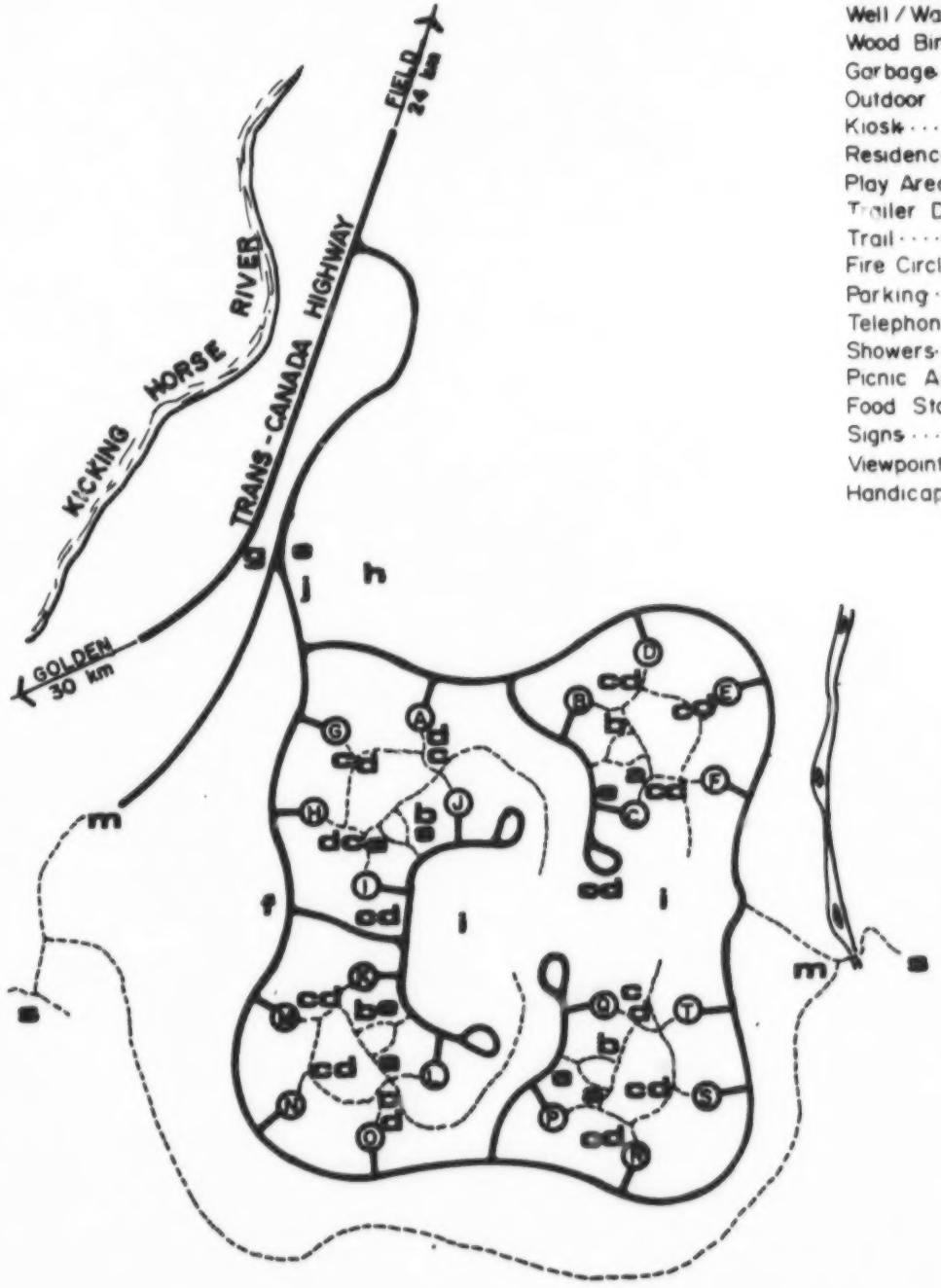
WESTERN REGION CAMPGROUND REPORT

LEGEND

Kitchen Shelter	a
Washrooms	b
Well / Water Standpipe	c
Wood Bin	d
Garbage	e
Outdoor Theatre	f
Kiosk	g
Residences	h
Play Area	i
Trailer Dump Station	j
Trail	k
Fire Circle / Pit	l
Parking	m
Telephones	n
Showers	o
Picnic Area	p
Food Storage	q
Signs	r
Viewpoint	s
Handicap Washroom	t



Hoodoo Creek Campground – YOHO

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WESTERN REGION CAMPGROUND REPORT

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Environment Canada
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Environnement Canada
Région de l'Ouest

WESTERN REGION CAMPGROUND REPORT

CHANCELLOR PEAK CAMPGROUND Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a campground rehabilitation plan for the 59 site campground. The scope of work would include the site rehabilitation, toilet building construction, minor utility improvements, TCH intersection improvements, and roadway improvements.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will not be expanded but shall only be rehabilitated and renovated.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, A/Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- Toilet Building - replace existing vault-type toilet privies.
- Shelters - evaluate and improve.
- Cyclists Food Storage Building

2. Utilities:

Assess water well and improve if required.

WESTERN REGION CAMPGROUND REPORT

3. TCH Intersection:

The intersection is under consideration for development and is part of the TCH Corridor Plan Project. Reference to this plan will provide further information.

4. Roads:

- Assess and improve existing chip seal access roadway to campground.
- Gravel surface on secondary roads.
- Highway Signage

5. Landscape:

- Universal Sites
- Tenting Surface: Soft
- Angle Parking Stall
- Activity Pad
- Permanent Table
- New Stove Design
- Barriers
- Campsite Markers c/w occupied indicator
- New Fire Circle
- Campground Self-Registration System
- Kicking Horse River Flood Protection and river channel management
- Minor Landscape Repairs
- Grey Water Disposal

6. Interpretation:

- Develop a trailhead kiosk/information area within campground for orientation purposes.
- Information signs and information to be provided to visitors with on-site media.
- Excellent opportunity to interpret river erosion and deposition.

D. SCHEDULE

Pending approval of the Campground Study Report, a detailed development program will be initiated. The work would be completed within 3 years upon approval of campground improvements.

E. OPERATIONS AND MAINTENANCE

1. Design Capital Person Years are involved at WRO.

WESTERN REGION CAMPGROUND REPORT

F. GENERAL CAMPGROUND STATISTICS

1. Design Criteria (From Parks Campground Manual)

1. Semi-Serviced (Level 2):

   - Tent and trailer camping with no utility hook-ups.

   - Centralized sanitary, water and sewage disposal facilities are provided.

2. Density of Campground: 8 - 18 sites/hectare.

3. People/Campsite: 1 - 8 people/campsite.

4. Capacity: 15 - 250 campsites.

2. Existing Conditions

This is the second most popular campground in the Park. It has 64 sites and is open from May 1st to early October. Most use occurs during July and August, when an average of 65% of the sites are occupied during the week and 76% are occupied during the weekend.

Total use has fluctuated from a total of 3,948 visitor-nights in 1976 to 4,880 visitor-nights in 1981, and 3,940 visitor-nights in 1985. Part of this fluctuation can be attributed to a loss of some campsites due to flooding in the spring during high water years. Use has dropped by 20% since 1981.

G. RESOURCE CONSERVATION

1. Resource Conservation Contact

Mr. Cal Sime, Yoho.

2. General Analysis

Chancellor Creek Campground: Episodic flooding of the Kicking Horse River, as in 1986, causes problems at this campground. This floodplain environment is considered key elk and moose winter range. Summer-only operation of the campground tends to minimize direct visitor-ungulate conflicts.

WESTERN REGION CAMPGROUND REPORT

3. **EARP**

EARP assessment Level One (Preliminary Screening) must be completed in year one. Level two assessment must be completed upon completion of the final Area Development Plan.

H. INTERPRETATION

- Develop a trailhead c/w a kiosk with information.

- Signage and other media exhibits must be encouraged in the campground. Links must be made with other interpretive themes within Yoho Park.

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WESTERN REGION
CAMPGROUND REPORT

CHANCELLOR PEAK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
A. ARCHITECTURE/ ENGINEERING				4.95	90.2	Nil	95.15
B. LANDSCAPE				9.9	171.465	Nil	181.365
C. GRAND TOTAL PROJECT COSTS				14.85	261.665	Nil	276.515

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WESTERN REGION
CAMPGROUND REPORT

CHANCELLOR PEAK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
A. ARCHITECTURE							
1. Toilet Bldgs		2	25.0		50.0		
2. Shelters		2	4.0		8.0		
3. Water Well		Nil	Nil		Nil		
4. SUB-TOTAL					58.0	Nil	58.0
5. CONTINGENCY 20%					11.6		11.6
6. RISK 15%					8.7		8.7
7. ENGINEERING MBC: 55.0 x 1.8 x .15 PY				4.95	9.9		14.85
8. ADMINISTRATION					2.0		2.0
9. TOTAL				4.95	90.2	Nil	95.15

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WESTERN REGION CAMPGROUND REPORT

CHANCELLOR PEAK CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
1. Stoves		58	0.062		3.64		
2. Tables		58	0.079		4.515		
3. Wheel Stops		Nil	Nil		Nil		
4. Tent Pads		58	0.357		20.76		
5. Site Markers		58	0.012		0.72		
6. Spurs		58	0.381		22.15		
7. Sites		58	0.251		14.6		
8. Site Services		Nil	Nil		Nil		
9. Wood Bin		1	2.5		2.5		
10. Garbage Containers		1	0.5		0.5		
11. Roads							
a. Entrance		2,150 Square m	0.003		6.7		
b. Service		3,100 Square m	0.002		7.4		
c. Loop		1,800 Square m	0.0062		~~11.3~~ 25.4		
12. Trails		150 Square m	0.20		3.1		
13. Trailhead Kiosk		1	2.0		2.0		
14. Flood Damage Rehabilitation		5,000 Square m	0.0012		6.25		
15. Kick. Horse River Flood Protection		300 Square m	0.010		3.0		
16. Site Barriers		350	0.025		8.7		
17. SUB-TOTAL					117.835	Nil	117.835
18. CONTINGENCY 20%					23.56		23.56
19. RISK 15%					17.67		17.67
20. ENGINEERING MBC: 55 x 1.8 x .2 PY				9.9	9.9		19.8
20. ADMINISTRATION					2.5		2.5
21. TOTAL				9.9	171.465	Nil	181.365

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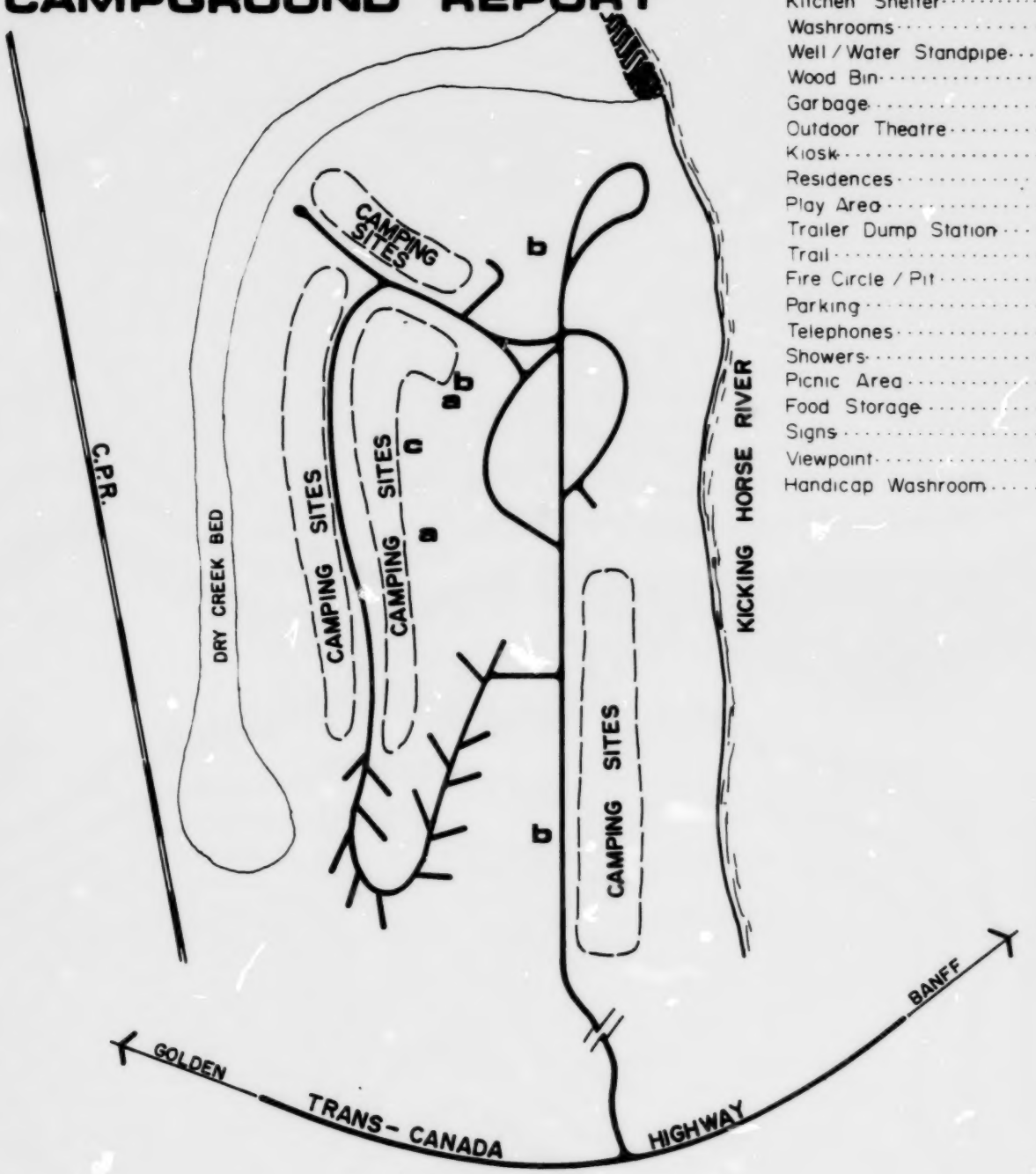
WESTERN REGION CAMPGROUND REPORT



LEGEND

Kitchen Shelter	a
Washrooms	b
Well / Water Standpipe	c
Wood Bin	d
Garbage	e
Outdoor Theatre	f
Kiosk	g
Residences	h
Play Area	i
Trailer Dump Station	j
Trail	k
Fire Circle / Pit	l
Parking	m
Telephones	n
Showers	o
Picnic Area	p
Food Storage	q
Signs	r
Viewpoint	s
Handicap Washroom	t

Chancellor Peak Campground - YOHO

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WESTERN REGION CAMPGROUND REPORT

WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND OVERFLOW Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a new redevelopment/rehabilitation plan for this multi-use area. The area is to be utilized for overflow camping area in the summer and for camping in the winter, the Burgess Shale OSX, and a trailer drop-off for the Yoho Valley Road.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will be planned to incorporate all the approved uses as per this concept plan.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, A/Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief, Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- The area has a picnic shelter and toilet facilities (developed within the past 2 years).
- An additional shelter may be needed for this area. This could be a unit moved from the nearby Kicking Horse Campground or Ottertail Group Campground.
- Relocate existing East Information Bureau building to the area. This will depend upon the completion of new Visitor's Centre. This building would be converted to a facility suitable for winter camping services (Park Management to decide - 1989).

WESTERN REGION CAMPGROUND REPORT

2. Utilities:

Review and analyze the existing water well.

3. Roads:

- Gravel Surface Roads
- Develop a gravel parking lot for the Burgess Shale OSX
- Signage

4. Landscape:

- Designated Parking Sites
- Winter Camping Sites
- Permanent Tables
- Campsite Markers
- Barriers
- Fire Circle
- Area Landscape Treatments
- Linking Trails to all Facilities
- Grey Water Disposal

5. Interpretation:

- The major item within this area is the Burgess Shale OSX (World Heritage Site). This is a separate project that is comprised of an exhibit, signage and trail system.
- Linking trails with the Kicking Horse Campground are required and may have some interpretive signage.
- On-site exhibits and information is required to reinforce the other opportunities within the area.

D. SCHEDULE

There is a PIP document submitted by the Park requesting Concept Approval. Pending the review and approval by the Management Committee the design and construction could be done within the next 3 years.

E. OPERATIONS AND MAINTENANCE

Design Person Years are involved at WRO.

WESTERN REGION CAMPGROUND REPORT

F. GENERAL CAMPGROUND STATISTICS

1. **Design Criteria** (From EC - Parks Manual)

   1. Group (Level 1): Group tent camping with centralized parking, eating and sanitary facilities provided.

   2. Density of Campground: 8 - 18 sites/hectare.

   3. People/Campsite: 1 - 8 people/campsite.

   4. Capacity: 15 - 100 campsites.

2. **Existing Conditions**

   Kicking Horse Overflow: The overflow area adjacent to Kicking Horse campground is opened as required over the summer. It has consistently been open throughout the entire months of July and August over the past few years. Use in June and September varies from year to year. The overflow campground has a capacity of 100 sites. Use has fluctuated as a result of the time of day we open the site based on the status of vest end campgrounds and on our desire to accommodate people rather than making them shuttle about.

G. RESOURCE CONSERVATION

1. Overflow Campground: The vegetation on this fluvial fan-floodplain has been modified considerably due to facility development and campground use. There is a wide habitat diversity in the area which makes it important to wildlife, particularly ungulates (predominantly elk) and carnivores. Impacts are minimized by the summer-only operation. The area has a high historical resource potential, primarily due to sites associated with early railway construction and mineral exploration/extraction activity. These sites have yet to be formally evaluated.

2. EARP Assessment Level One (Preliminary Screening) must be completed in Year One.

   Level Two Assessment must be completed upon completion of final Area Development Plan.

WESTERN REGION CAMPGROUND REPORT

H. INTERPRETATION

- The Burgess Shale OXS is the most popular and important interpretive resource of this area. The final designs must link well with the overflow campground work.

- There should be some exhibits/signage incorporated into the campground to identify other nearby interests/opportunities and the Yoho Valley Road.

- The historical aspect of this region is very valuable and important.

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND OVERFLOW

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
SUMMARY							
I. Overflow - Campground					64.75		
II. Overflow - Day Use Area					38.325		
SUB-TOTAL					103.075		103.075
CONTINGENCY 20%					20.61		20.61
RISK 15%					15.46		15.46
ENGINEERING MBC: 55.0 x 1.8 x .25 PY				4.95	19.8		24.75
ADMINISTRATION					5.0		5.0
GRAND TOTAL PROJECT COSTS				4.95	163.945	Nil	168.895

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND OVERFLOW

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
OVER FLOW DAY USE AREA							
1. Roadways and Parking Area		2,400 Square m	0.0025		6.0		
2. Trails		250 Square m	0.022		5.5		
3. Tables		14	0.515		8.05		
4. Stoves		10	0.120		1.2		
5. Wood Bin		1	2.0		2.0.		
6. Garbage Containers		2	0.35		0.75		
7. Upgrade Toilet Bldg Interior Improvements		Lump	Sum		1.2		
8. Planting		175	35.00		6.125		
9. Landscape Rehabilitation		2,000	0.0035		7.0		
10. Signage		Lump	Sum		0.5		
11. **SUB-TOTAL**					38.325		

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WESTERN REGION CAMPGROUND REPORT

KICKING HORSE CAMPGROUND OVERFLOW

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
OVER FLOW - CAMPGROUND							
1. Group Fire Circle		1	5.0		5.0		
2. Barrier Posts		150	0.03		4.5		
3. Site Markers		8	0.05		0.4		
4. Wood Bin		1	2.0		2.0		
5. Service Barrier Posts		4	0.3		1.2		
6. Control Gate		1	2.5		2.5		
7. Self Registration-Kiosk/ Info. Structure		1	5.3		5.3		
8. Garbage Container Units		2	0.3		0.6		
9. Landscape Rehabilitation		7,000 Square m	0.0027		19.0		
10. Trails		500 Square m	0.016		8.0		
11. Roadways and Parking Area		6,500 Square m	0.0025		16.25		
(Note: Tables not included, part of another Project.)							
12. SUB-TOTAL					64.75		

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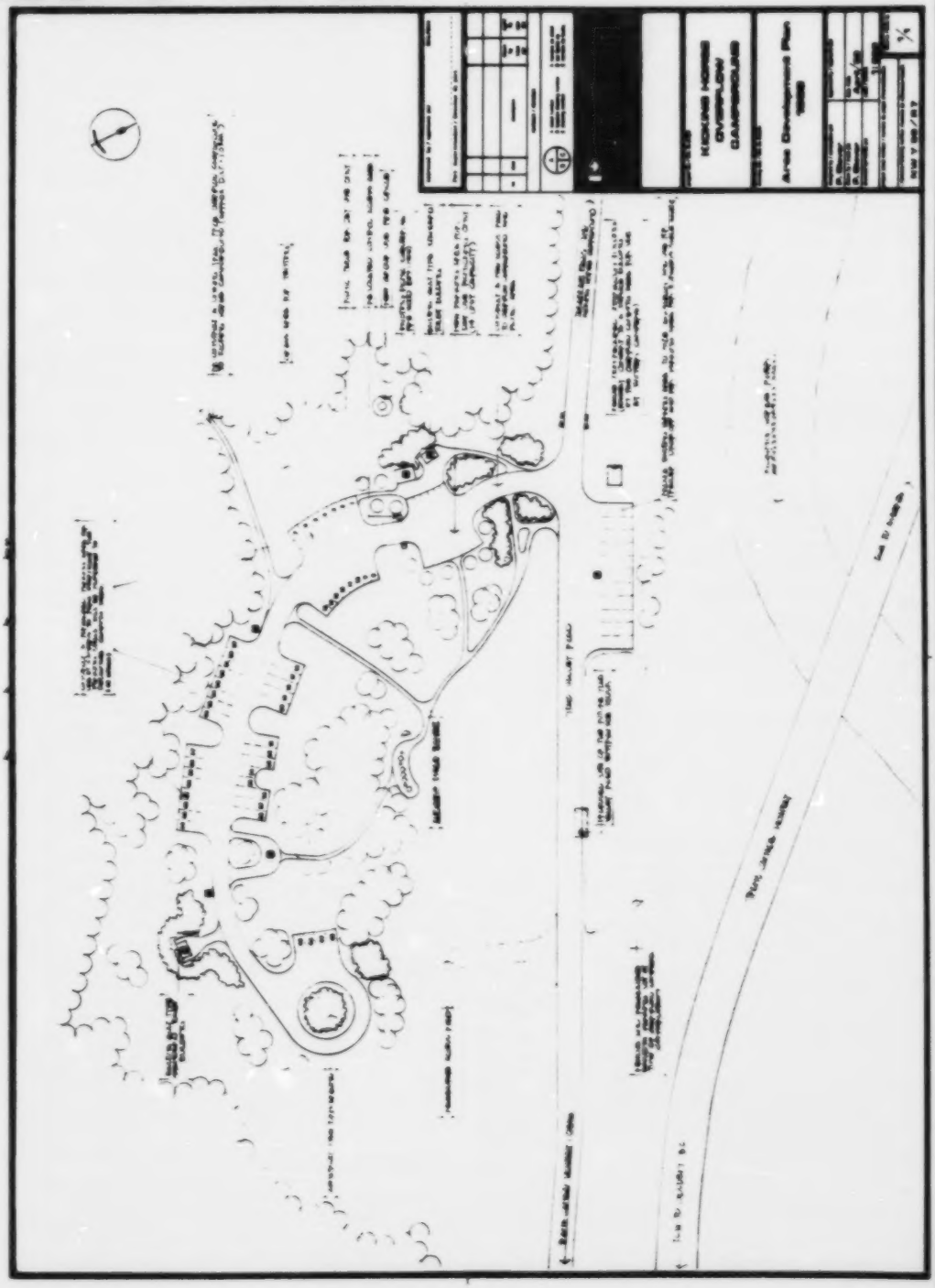
WESTERN REGION CAMPGROUND REPORT

LEGEND

- Kitchen Shelter - a
- Washrooms - b
- Well / Water Standpipe - c
- Wood Bin - d
- Garbage - e
- Outdoor Theatre - f
- Kiosk - g
- Residences - h
- Play Area - i
- Trailer Dump Station - j
- Trail - k
- Fire Circle / Pit - l
- Parking - m
- Telephones - n
- Showers - o
- Picnic Area - p
- Food Storage - q
- Signs - r
- Viewpoint - s
- Handicap Washroom - t



Kicking Horse Overflow Campground – YOHO

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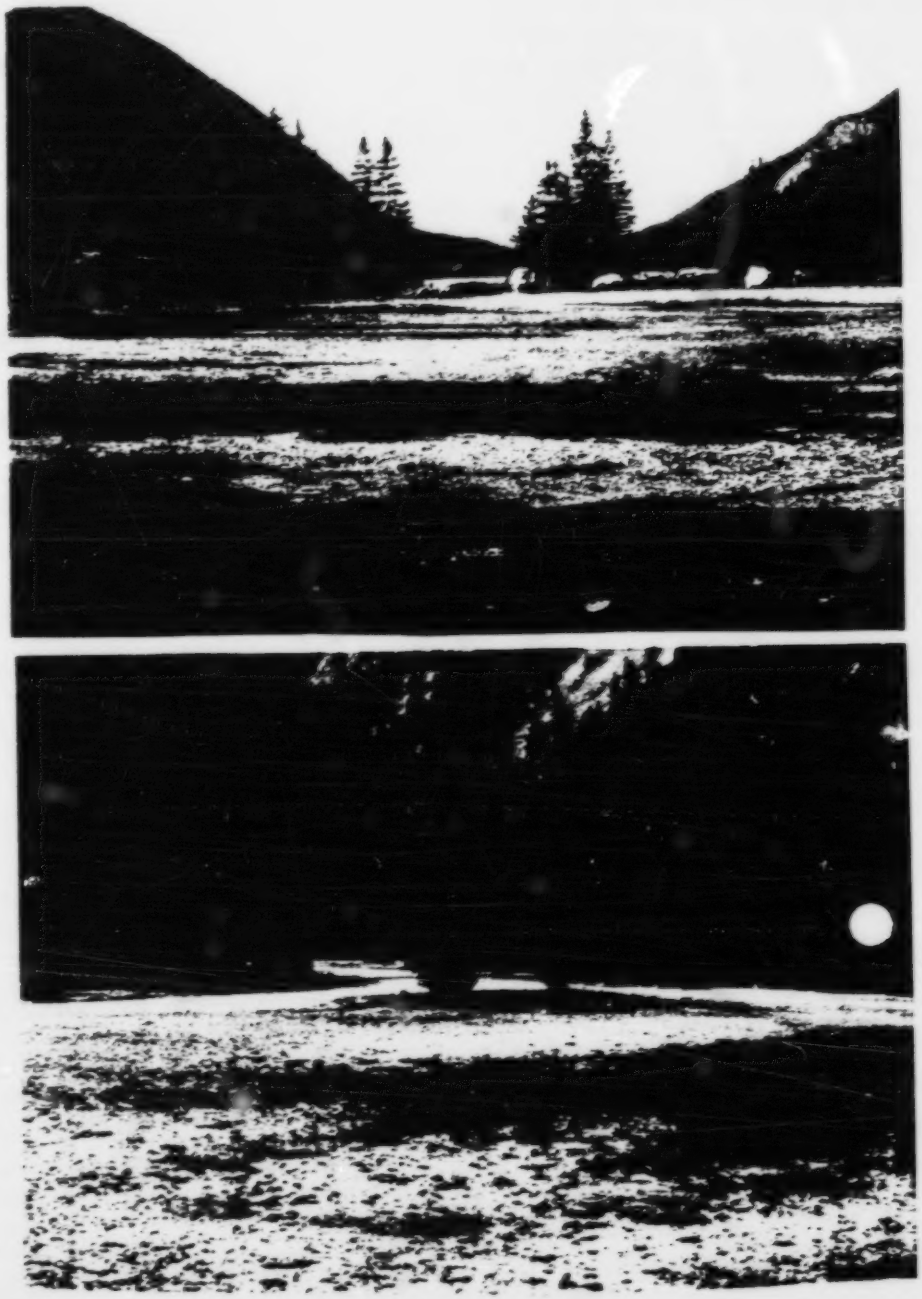
KICKING HORSE OVERFLOW CAMPGROUND YNP



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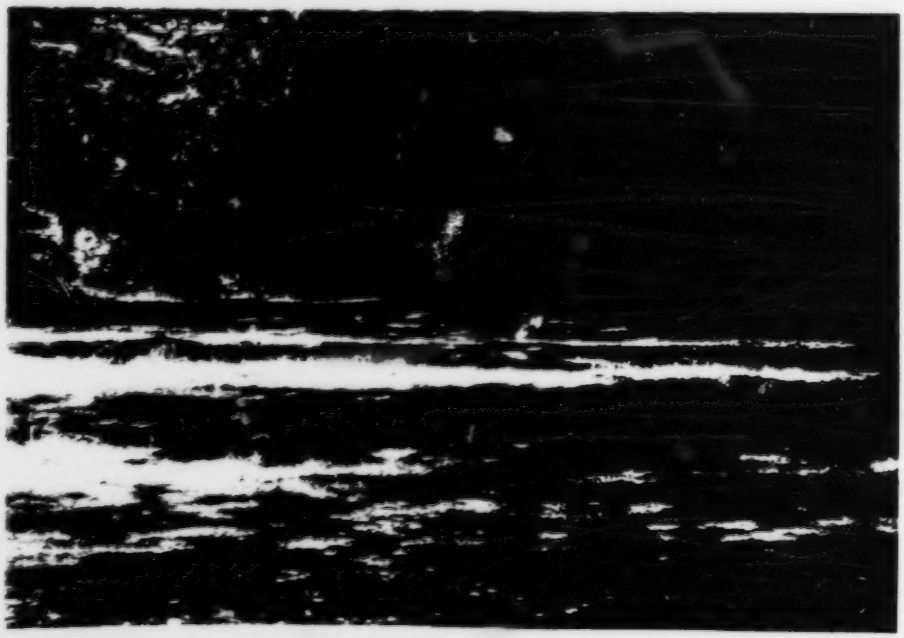
WESTERN REGION CAMPGROUND REPORT

KICKING HORSE OVERFLOW CAMPGROUND YNP



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WESTERN REGION CAMPGROUND REPORT

WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS WALK-IN CAMPGROUND Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a redevelopment plan for the existing walk-in campground and the existing parking area. The scope of work would include the site rehabilitation, building renovations and improvements, utility assessment and improvements, the assessment of the existing parking/access road system used to walk to the campground, and a evaluation/plan for the warden's cabin, stables and the new site for the youth hostel.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will not be expanded but shall only be rehabilitated and renovated.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, A/ Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief, Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- Toilets - replace.
- Shelters - renovate/repair.
- New Food Storage Building

2. Utilities:

Assess and improve as required.

WESTERN REGION CAMPGROUND REPORT

3. Roads:

- Service Road - assess the function and improve as required.
- Parking/Trailhead - reassess and prepare option plans to improve the function of the parking area as it impacts onto the walk-in campground. Carts have been installed for use by the campers to transport their equipment. The parking area is often very crowded and full.
- Signage
- Gravel surface acceptable.
- Evaluate the walk-in campgrounds relationship to the overall Takakkaw Falls layout.

4. Landscape:

- Walk-in Campsites
- Tenting Surface: Soft
- Activity Pad
- Permanent Table
- New Stove Design Required
- Fire Circle
- Walk-in campground trail/service road.
- Campsite Edge Timber - evaluate and improve.
- Rehabilitation
- Trailhead Kiosk Structure - Yoho Valley
- Internal Trail System
- Prepare an Area Development Plan which identifies locations for the proposed Youth Hostel relocation and the warden's cabin facilities.
- Self-Registration System
- Grey Water Disposal

5. Interpretation:

- Provide information/trailhead structure for the Yoho Valley Trail System.
- Provide an interpretive on-site media package for the region and also the link to the other interpretive opportunities available within the Park.

D. SCHEDULE

Pending approval of the Campground Study Report, a detailed development program will be initiated. The work would be completed within 3 years upon approval of the campground improvements. The Youth Hostel/Warden's Cabin relocation may be a long term project.

WESTERN REGION CAMPGROUND REPORT

E. OPERATIONS AND MAINTENANCE

Design Capital Person Years are involved at WRO.

F. GENERAL CAMPGROUND STATISTICS

1. Design Criteria (From Parks Campground Manual)

1. Semi-Serviced - Walk-In (Level 3): Tent camping with potable water and vault toilets.

2. Density of Campground: 5 - 8 sites/hectare.

3. People/Campsite: 4 - 8 people/campsite.

4. Capacity: 15 - 250 campsites.

5. Campsite Spacing: 30 - 60 metres apart.

2. Existing Conditions

The 35-site walk-in campground at Takakkaw Falls is used primarily as a staging area for backcountry trips into the Yoho Valley and by campers who prefer a quiet place from which to enjoy the Park. Occupancy rates are low (only 40% of the sites are occupied, on average, on summer weekends). Possible explanations for this campground's lack of popularity are its walk-in nature, the absence of amenities and a lack of awareness about its existence.

The Whiskey Jack hostel is located near Takakkaw Falls and operates only in the summer due to the facility's location at the edge of an avalanche slope. The facility is well-located for access to hiking trails in the Yoho Valley. It does not, however, serve the transient visitor travelling on the Trans-Canada Highway. Contrary to the significant decline in use at most national park hostels, use of the Whiskey Jack hostel has increased steadily since 1977 by a total of 37%. In 1985, the hostel received 1342 visitor-nights.

G. RESOURCE CONSERVATION

1. Resource Conservation Contact

Mr. Cal Sime, Yoho.

WESTERN REGION CAMPGROUND REPORT

2. **General Analysis**

Takakkaw Falls Campground: This campground was redesigned as a walk-in facility in 1974-75. Extensive rehabilitation was undertaken to repair damage caused by random camping and over-use.

Wildlife-visitor use conflicts at this facility are rare. The area is used by elk in summer, but this is not a management concern at present. The installation of bearproof food and garbage shelters has virtually eliminated bear-human conflicts at this facility. There is some potential for impacts to vegetation and terrain if use levels increase substantially.

3. **EARP**

EARP assessment Level One (Preliminary Screening) must be completed in Year One. Level two assessment must be completed upon completion of the final Area Development Plan.

H. INTERPRETATION

- Improve the interpretive on-site media for the region and provide a new kiosk/trailhead for the Yoho Valley Trail System.

- Link with the other opportunities for interpretive aspects within the Park.

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WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
A. ARCHITECTURE				9.9	121.25	Nil	131.15
B. LANDSCAPE				9.9	151.61	Nil	161.51
C. GRAND TOTAL PROJECT COSTS				19.8	272.86	Nil	292.66

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WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
A. ARCHITECTURE							
1. Toilets		2	28.0		56.0		
2. Shelter		1	25.0		25.0		
3. SUB-TOTAL					81.0	Nil	81.0
4. CONTINGENCY 20%					16.2		16.2
5. RISK 15%					12.15		12.15
6. ENGINEERING MBC: 55.0 x 1.8 x .2 PY				9.9	9.9		19.8
7. ADMINISTRATION					2.0		2.0
8. TOTAL				9.9	121.25	Nil	131.15

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WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
1. Stoves		35	0.050		1.75		
2. Tables		35	0.092		3.25		
3. Wheelstops		Nil	Nil		Nil		
4. Tent Pads		35	0.800		28.0		
5. Site Markers		35	0.020		0.710		
6. Spurs/Site Services: Walk-in Campground N/A		Nil	Nil		Nil		
7. Wood Bins		1	2.5		2.5		
8. Standpipes		2	0.1		0.2		
9. Service Road		2,500 Square m	0.0013		3.25		
10. Trails							
a. Existing		1,250 Square m	0.0098		12.3		
b. Undefined		100 Square m	0.025		2.5		
11. Campground Rehabilitation		35	1.285		45.0		
12. SUB-TOTAL					**99.46**	**Nil**	**99.46**
13. CONTINGENCY 20%					**19.89**		**19.89**
14. RISK 15%					**14.91**		**14.91**
15. ENGINEERING MBC: 55.0 x 1.8 x .25 PY				9.9	14.85		24.75
16. ADMINISTRATION					2.5		2.5
17. TOTAL				9.9	151.61	Nil	161.51

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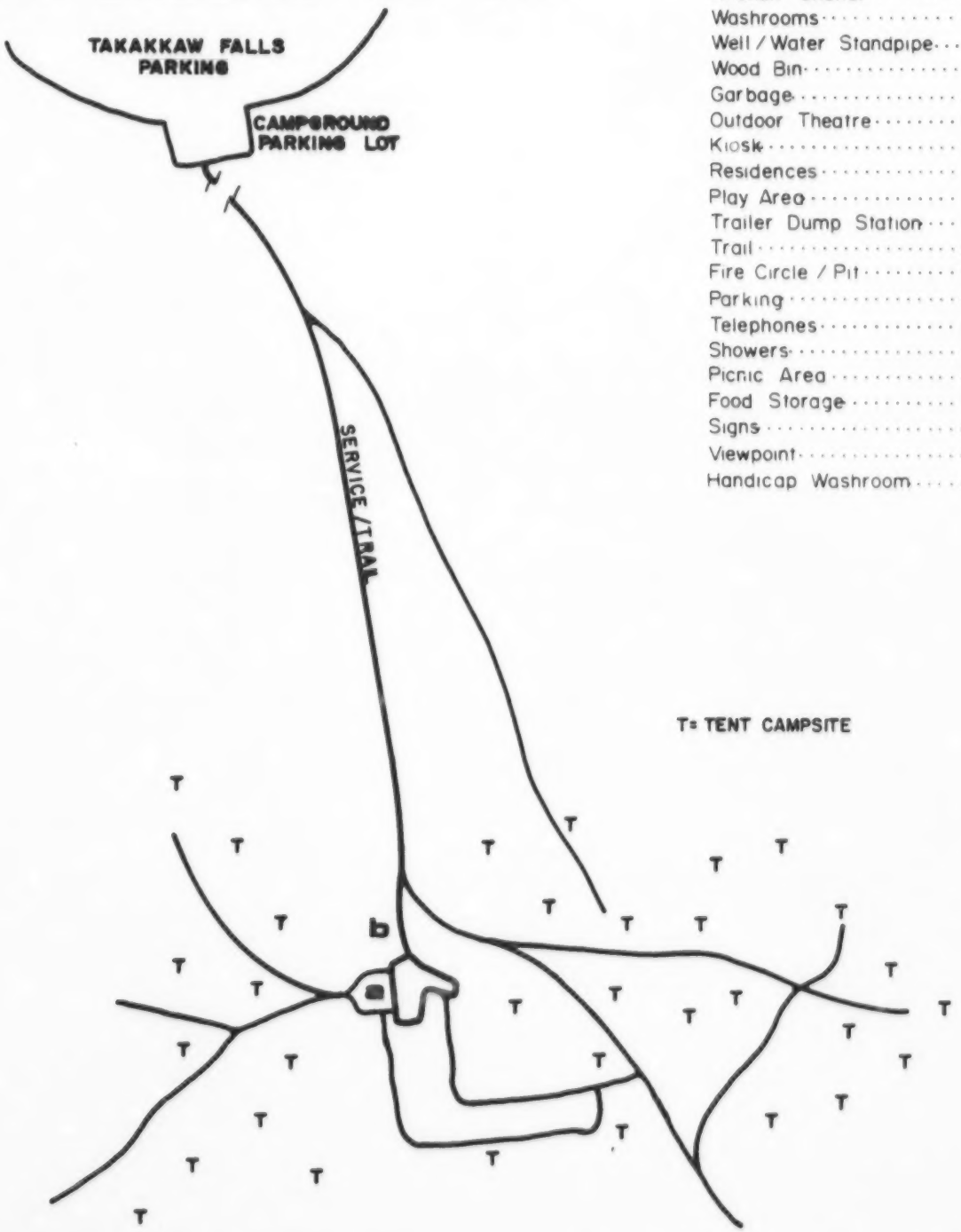
WESTERN REGION CAMPGROUND REPORT



LEGEND

Kitchen Shelter	a
Washrooms	b
Well / Water Standpipe	c
Wood Bin	d
Garbage	e
Outdoor Theatre	f
Kiosk	g
Residences	h
Play Area	i
Trailer Dump Station	j
Trail	k
Fire Circle / Pit	l
Parking	m
Telephones	n
Showers	o
Picnic Area	p
Food Storage	q
Signs	r
Viewpoint	s
Handicap Washroom	t

Takakkaw Falls Walk-in Campground - YOHO

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WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS CAMPGROUND YNP

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WESTERN REGION CAMPGROUND REPORT

TAKAKKAW FALLS CAMPGROUND YNP

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WESTERN REGION CAMPGROUND REPORT

WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA WALK-IN CAMPGROUND Date: March 31, 1989

Yoho National Park

A. PROJECT PROPOSAL

Prepare a redevelopment plan for the existing back country campground area. The scope of work would include the site rehabilitation, building and utility improvements, interpretive media/signage, and an assessment of the campground as it relates to the overall Lake O'Hara region.

B. PURPOSE

The improvements proposed are related to the "Yoho Park Management Plan" (December 1988). The campground will not be expanded but shall only be rehabilitated and renovated. The camping sites will be redeveloped to accommodate larger tents.

C. FUNCTION

1. Team Members

Team Captain: Patrick Glover, WRO, Architectural & Engineering Services

Park Staff: Dave Cairns, Chief, Visitor Services
Bob Weaver, General Works Manager
Jeff Anderson, A/Chief, Interpretation
Cal Sime, Resource Conservation

WRO: Steve Evack, WRO, Architectural & Engineering Services
Walter Guest, WRO, Architectural & Engineering Services

2. Major Work Items

1. Buildings:

- Toilets - replace with vault type toilets.
- New Food Locker Storage.
- Assess and improve Picnic Shelters.

2. Utilities:

Assess existing facilities and improve as required.

WESTERN REGION CAMPGROUND REPORT

3. Roads:

The area is accessed by a service road which has a private bus system. The road does require some improvements but the extent of work to be done may be too large to be included with this study/assessment.

4. Landscape:

- Evaluate the campsites and enlarge as required (timbers) (lower?).
- Permanent Table
- Stoves
- Rehabilitate Camping Area.
- Provide a Central Service Centre.
- Group Fire Circle.
- Trails
- Activity Pads
- Review existing Drop-off Area and improve "entry feeling" to campground.
- Grey Water Disposal

5. Interpretation:

Provide an on-site exhibit for information on the area as well as information on the other opportunities in Yoho Park.

D. SCHEDULE

Pending approval of the Campground Study Report, a detailed development program will be initiated. The work would be completed within 3 years upon approval of the campground improvements. The construction season at this area is very short due to the location and climatic conditions.

E. OPERATIONS AND MAINTENANCE

Design Capital Person Years are involved at WRO.

F. GENERAL CAMPGROUND STATISTICS

1. Design Criteria (From Parks Campground Manual)

1. Semi-Serviced - Walk-In (Level 3): Tent camping with potable water and vault toilets.

2. Density of Campground: 5 - 8 sites/hectare.

WESTERN REGION CAMPGROUND REPORT

3. People/Campsite: 4 - 8 people/campsite.

4. Capacity: 15 - 250 campsites.

5. Campsite Spacing: 30 - 60 metres apart.

G. RESOURCE CONSERVATION

1. General Analysis

This popular area features spectacular scenery, a lodge, a trail shelter, a 30-site campground, an 80 km trail system, summer access by bus along a 13 km fire road, and several Parks Canada administrative buildings. Most facilities are used to capacity during the summer months. A quota system limits day and overnight users. In 1985, use of the area amounted to approximately 14,700 visitor-nights, plus 2,300 day users in the summer. Winter day-use figures are not available, although it is known that the area is popular with cross-country skiers.

CAMPGROUND	1983		1984		1985	
	# Sites Occupied	User-Nights	# Sites Occupied	User-Nights	# Sites Occupied	User-Nights
O'Hara/Cataract Brook Lake O'Hara	-	1956	-	1729	-	1586

2. Regional Conditions

One resource concern in the area is trail degradation. This is largely the result of heavy use, poor original location, chronic wet conditions, poor soils and the short growing season. An ongoing trail upgrading program should remedy many of the trail problems. An additional concern is the potential contamination of Schaffer Creek from pit privies at the Elizabeth Parker hut. Wildlife concerns include the protection of the area's sizable goat population if use increases, and bear management due to the heavy use the area receives.

The Lake O'Hara area has been designated by the park (Blyth 1983) to be the area with the highest "park value", based on its uniqueness, rarity, representativeness, fragility, ecological importance, scientific importance and high aesthetic value. Special attention should be paid to preserving this value.

WESTERN REGION CAMPGROUND REPORT

3. **Resource Conservation Contact**

   Mr. Cal Sime, Yoho.

4. **EARP**

   EARP assessment Level One (Preliminary Screening) must be completed in Year One. Level two assessment must be completed upon completion of the final Area Development Plan.

H. INTERPRETATION

- Improve the interpretive on-site media for the region and provide a new kiosk/trailhead for the Lake O'Hara Region.

- Link with the other opportunities for interpretive aspects within the Park.

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WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA CAMPGROUND

	DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
					YR - 1	YR - 2	FUTURE	
*	A. ARCHITECTURE				9.9	120.85	Nil	130.75
	B. LANDSCAPE				9.9	106.86	Nil	115.965
	C. GRAND TOTAL PROJECT COSTS				19.8	226.91	Nil	246.71

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WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA CAMPGROUND

	DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
					YR - 1	YR - 2	FUTURE	
	A. ARCHITECTURE							
	1. Toilet Building Log Motif		1	35.0		35.0		
*	2. Shelters							
	a. New (Design) Unit c/w Storage Fac.		1	49.0		49.0		
	b. New Shelter (Design)		1	45.0		45.0		
	3. Upgrade Exist. Shelter		2	2.25		4.5		
	4. SUB-TOTAL					84.0*		
	5. CONTINGENCY 20%					16.8		
	6. RISK 15%					12.6		
	7. ENGINEERING MBC: 55.0 x 1.8 x .2 PY				9.9	4.95		14.85
	8. ADMINISTRATION					2.5		
*	9. TOTALS				9.9	120.85	*	130.75

*BASED ON MAJOR SHELTER DESIGN
*OPTION TO BE CHOSEN

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WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA CAMPGROUND

DESCRIPTION OF WORK ITEM	PRIORITY	QUANTITY	UNIT COST	PHASING			TOTAL COST
				YR - 1	YR - 2	FUTURE	
B. LANDSCAPE							
1. Stoves		30	0.054		1.625		
2. Tables		30	0.200		6.0		
3. Wheelstops		Nil	Nil		Nil		
4. Site Markers		35	0		0		
5. Campsite Pods							
a. Fix-up		30	0.9		27.0		
b. Enlarge New		10	1.95		19.5		
					46.5		
6. Wood Bins		1	1.0		1.0		
7. Garbage and Food Storage Building		1	0.5		0.5		
8. Water Standpipe and Water Supply System		1	7.0		7.0		
9. Roads		Nil	Nil		Nil		
10. Trails		1220 Square m	0.0017		2.13		
11. Group Fire Circle		1	3.0		3.0		
12. Kiosk Structure c/w Media Info.		1	2.0		2.0		
13. SUB-TOTAL					59.755	Nil	69.755
14. CONTINGENCY 20%					13.95		13.95
15. RISK 15%					10.46		10.46
16. ENGINEERING MBC: 55.0 x 1.8 x .2 PY				9.9	9.9		19.8
17. ADMINISTRATION					2.0		2.0
18. TOTAL				9.9	106.06	Nil	115.965

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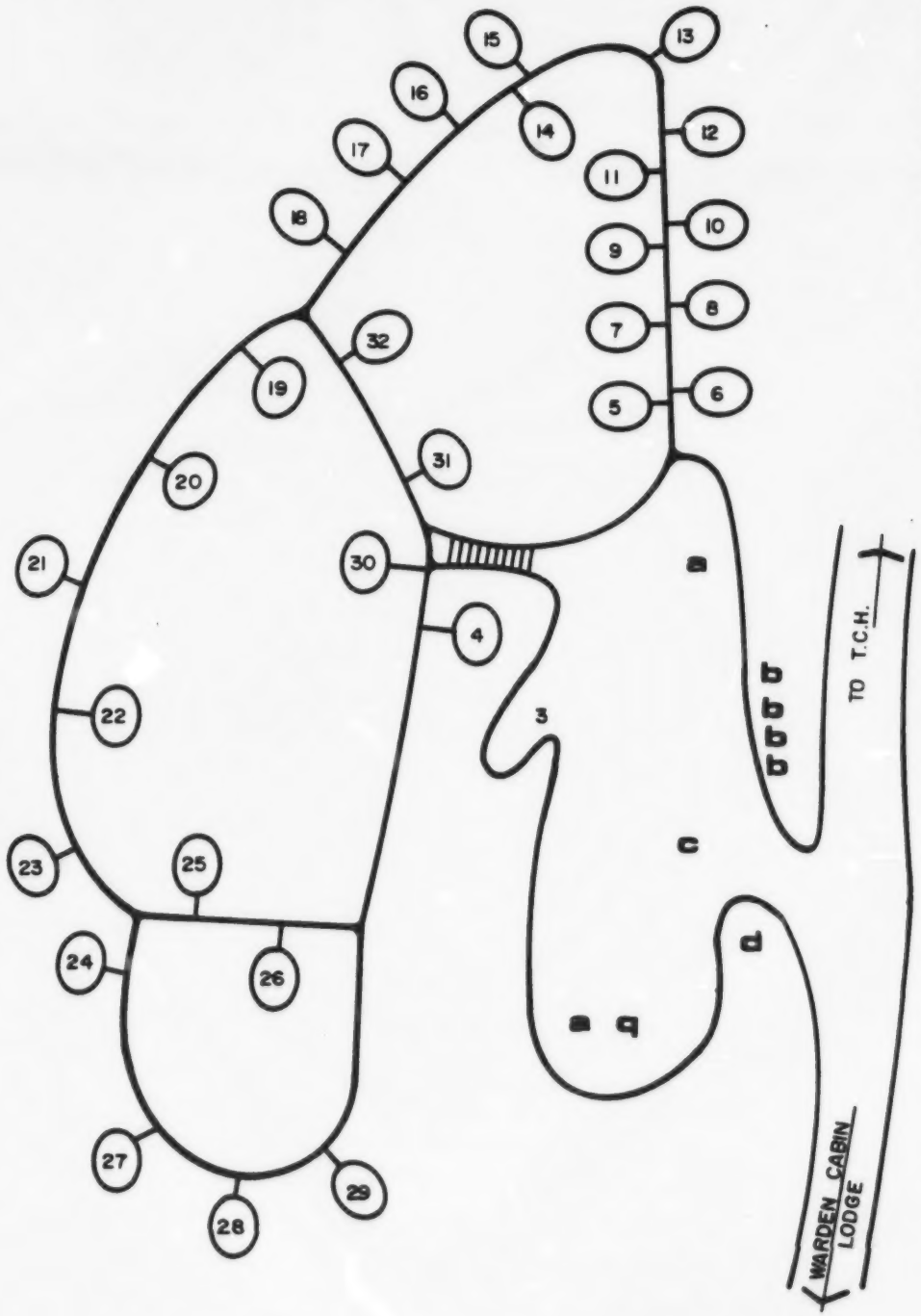
WESTERN REGION CAMPGROUND REPORT

LEGEND

- Kitchen Shelter - a
- Washrooms - b
- Well / Water Standpipe - c
- Wood Bin - d
- Garbage - e
- Outdoor Theatre - f
- Kiosk - g
- Residences - h
- Play Area - i
- Trailer Dump Station - j
- Trail - k
- Fire Circle / Pit - l
- Parking - m
- Telephones - n
- Showers - o
- Picnic Area - p
- Food Storage - q
- Signs - r
- Viewpoint - s
- Handicap Washroom - t



Lake O'Hara Campground - YOHO

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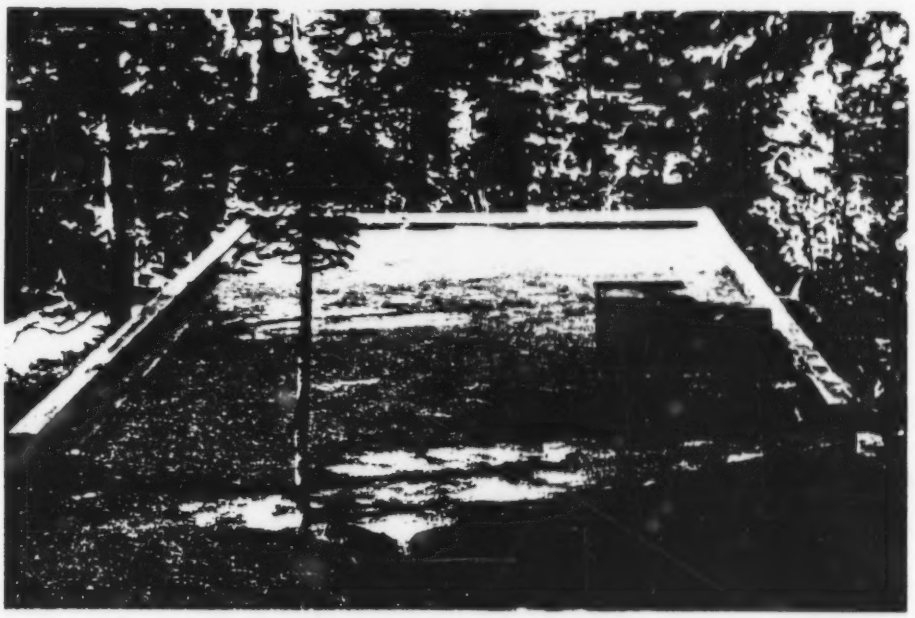
WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA CAMPGROUND YNP



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WESTERN REGION CAMPGROUND REPORT

LAKE O'HARA CAMPGROUND YNP